

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/648,173	08/25/2003	Chang-Hung Lee	5234-0170PUS1	4453
2292 7590 04/13/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAMINER	
			BATES, KEVIN T	
			ART UNIT	PAPER NUMBER
			2155	
SHORTENED STATUTORY	PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MON	JTHS	04/13/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

j		Application No.	Applicant(s)				
Office Action Summary		10/648,173	LEE ET AL.				
		Examiner	Art Unit				
		Kevin Bates	2155				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONET	J. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1) 🔀	Responsive to communication(s) filed on <u>02 A</u>	oril 2007.					
·		action is non-final.					
′=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٠, ٢	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)	Claim(s) 1-23 is/are pending in the application.						
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6) Claim(s) 1-23 is/are rejected.						
=	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
	The specification is objected to by the Examine	r					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
,—	•	arimier. Note the attached Office	7.00.01.01.01111.1.0.102.				
	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
		,					
Attachmen							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
	nation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
	r No(s)/Mail Date	6) Other:					

DETAILED ACTION

This Office Action is in response to a communication made on March 8, 2007.

Claims 1-23 are pending in the application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Engwer (6947483) in view of Chou (5850526).

Regarding claim 1, Engwer teaches a data processing system applying in a wireless local areas network (WLAN) (Column 1, lines 20 – 24), the WLAN comprising a plurality of data receiving/transmitting apparatus (Column 4, lines 16 – 20), the system at least being set up in a first data receiving/transmitting apparatus to let the first data receiving/transmitting apparatus proceed the received or transmitting data (Column 4, lines 42 – 45; lines 50 – 55), the system comprising:

a transmitting device for processing the transmitting data transmitted to a second data receiving/transmitting apparatus (Column 4, lines 50 – 55), the transmitting device comprising:

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a control module for determining a corresponding data compressing policy before the transmitting data being transmitted to the second data receiving/transmitting apparatus (Column 5, lines 55 – 59); and

a data compressing module for compressing the transmitting data according to a data compressing method which is assigned by the control module (Column 7, lines 13 – 15); and

a receiving device for processing a receiving data, the receiving device comprising:

an identity module for identifying the data compressing method of the received data (Column 7, lines 7 - 12); and

a data decompressing module for decompressing the received data according to the data compressing method which is identified by the identity module (Column 7, lines 7-12).

Engwer does not explicitly indicate a look up table, when the data processing system transmitting data to the plurality of data receiving/transmitting apparatus, for recording the data compressing method and the identification number corresponding to each of the plurality of data receiving/transmitting apparatus; and where the control module determines compressing policy according to the record of the second data receiving/transmitting apparatus in the look up table.

Chou teaches a LAN system with compression capabilities (Column 4, lines 26 – 31). Chou's teaching includes a look up table, when the data processing system transmitting data to the plurality of data receiving/transmitting apparatus, for recording

the data compressing method and the identification number corresponding to each of the plurality of data receiving/transmitting apparatus (Figure 7; Column 57 – 62); and where the control module determines compressing policy according to the record of the second data receiving/transmitting apparatus in the look up table (Column 8, line 67 – Column 9, line 6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Chou's teaching of a destination table including compression capabilities in Engwer's WLAN in order to allow the transmission control module to improve the performance by having the information on whether compression is possible more readily available.

Regarding claim 12, Engwer teaches a data processing method of wireless local areas network (WLAN) (Column 1, lines 20 – 24), the WLAN comprises pluralities of data receiving/transmitting apparatus (Column 4, lines 16 – 20), the processing method processes a transmitting data at least in one data receiving/transmitting apparatus, for following up with transmitting the transmitting data to a target data receiving/transmitting apparatus of the WLAN (Column 4, lines 42 – 45; lines 50 – 55) the data processing method comprises;

determining a corresponding data compressing policy according to the record of the target data receiving/transmitting apparatus before the transmitting data being transmitted to the target data receiving/transmitting apparatus (Column 5, lines 55 – 59); and

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compressing the transmitting data according to a data compressing method recorded in the data compressing policy (Column 7, lines 13 - 15).

Chou does not explicitly indicate the data receiving/transmitting apparatus comprises a look up table, the look up table comprising a plurality of data records for recording the data compressing method and the identification number corresponding to each of the plurality of data receiving/transmitting apparatus when the data processing system transmitting data to the plurality of data receiving/transmitting apparatus,

Engwer teaches a LAN system with compression capabilities (Column 4, lines 26 – 31). Chou's teaching includes a look up table, when the data processing system transmitting data to the plurality of data receiving/transmitting apparatus, for recording the data compressing method and the identification number corresponding to each of the plurality of data receiving/transmitting apparatus (Figure 7; Column 57 – 62); and where the control module determines compressing policy according to the record of the second data receiving/transmitting apparatus in the look up table (Column 8, line 67 – Column 9, line 6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Chou's teaching of a destination table including compression capabilities in Engwer's WLAN in order to allow the transmission control module to improve the performance by having the information on whether compression is possible more readily available.

Regarding claims 2 and 14, Engwer teaches the data processing system of claims 1 and 12, wherein the data compressing policy comprises:

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if the data compressing method used by the second data receiving/transmitting apparatus is known, the control module notifying the data compressing module to compress the data according to the data compressing method recorded in the look up table (Column 12, lines 9-18); and

if the data compressing method used by the second data receiving/transmitting apparatus is not known, the control module determining a process to negotiate with the second data receiving/transmitting apparatus by a predetermined inquiring procedure (Column 6, line 66 – Column 7, line 4).

Engwer does not explicitly indicate that the apparatus uses a look up table to determine whether the apparatus knows if the second apparatus can use compression.

Chou teaches a LAN system with compression capabilities (Column 4, lines 26 – 31). Chou's teaching includes a look up table, when the data processing system transmitting data to the plurality of data receiving/transmitting apparatus, for recording the data compressing method and the identification number corresponding to each of the plurality of data receiving/transmitting apparatus (Figure 7; Column 57 – 62); and where the control module determines compressing policy according to the record of the second data receiving/transmitting apparatus in the look up table (Column 8, line 67 – Column 9, line 6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Chou's teaching of a destination table including compression capabilities in Engwer's WLAN in order to allow the transmission control module to

improve the performance by having the information on whether compression is possible more readily available.

Regarding claims 3 and 15, Engwer teaches the data processing system of claims 2 and 14, wherein the inquiring procedure comprises; transmitting an inquiring signal to the second data receiving/transmitting apparatus (Column 6, line 66 – Column 7, line 4); waiting for a response signal responded by the second data receiving/transmitting apparatus (Column 7, lines 12 – 15); and proceeding a predetermined responding processing procedure in a predetermined waiting period, for following up with transmitting the data (Column 7, lines 12 – 15, where the AP sends out the test packet to the MU and operates as the MU cannot handle the compressed data unless a response packet in a compressed format is received).

Regarding claims 4 and 16, Engwer teaches the data processing system of claims 3 and 15, wherein the response signal comprises following responding information: whether the transmitting data should be compressed; and the data compressing method being used when the transmitting data should be compressed (Column 7, lines 12 – 15, where the AP sends out the test packet to the MU and operates as the MU cannot handle the compressed data unless a response packet in a compressed format is received).

Regarding claims 5 and 17, Engwer teaches the data processing system of claims 4 and 15, wherein the responding processing procedure comprises: if receiving the response signal in the predetermined waiting period, then processing the transmitting data according to the responding information of the response signal; and if

not receiving the response signal in the predetermined waiting period, then directly transmitting the transmitting data without compressing (Column 7, lines 12 – 15, where the AP sends out the test packet to the MU and operates as the MU cannot handle the compressed data unless a response packet in a compressed format is received).

Regarding claims 6 and 18, Engwer teaches the data processing system of claims 5 and 17, wherein, when the responding information of the response signal shows unnecessary to proceed the data compression, the control module notifies the data compressing module not to proceed the compressing procedure, and transmits the transmitting data directly (Column 7, lines 12 – 15, where the AP sends out the test packet to the MU and operates as the MU cannot handle the compressed data unless a response packet in a compressed format is received).

Regarding claims 7 and 19, Engwer teaches the data processing system of claims 5 and 17, wherein, when the responding information of the response signal (Column 7, lines 12 - 15) shows necessary to proceed the data compression, the apparatus creates a record of the MU's ability to compress data and its compression scheme (Column 12, lines 9 - 17).

Engwer does not explicitly indicate the look up table creates a data record to record the device identification number of the second data receiving/transmitting apparatus, the information of data compression, and the information of the corresponding data compressing method into the look up table.

Chou teaches a LAN system with compression capabilities (Column 4, lines 26 – 31). Chou's teaching includes a look up table, for recording the data compressing

method and the identification number corresponding to each of the plurality of data receiving/transmitting apparatus (Figure 7; Column 57 – 62); and where the control module determines compressing policy according to the record of the second data receiving/transmitting apparatus in the look up table (Column 8, line 67 – Column 9, line 6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Chou's teaching of a destination table including compression capabilities in Engwer's WLAN in order to allow the transmission control module to improve the performance by having the information on whether compression is possible more readily available.

Regarding claims 8 and 20, Engwer teaches the data processing system of claims 5 and 17, wherein, when the responding information of the response signal shows unnecessary to proceed the data compression, a data record to record the device identification number of the second data receiving/transmitting apparatus, the information of unnecessarily proceeding data compression (Column 12, lines 9 – 17, where the AP keeps track of each MU and whether they have shown no compression abilities).

Engwer does not explicitly indicate the look up table creates a data record to record the device identification number of the second data receiving/transmitting apparatus, the information of data compression, and the information of the corresponding data compressing method into the look up table.

Chou teaches a LAN system with compression capabilities (Column 4, lines 26 – 31). Chou's teaching includes a look up table, for recording the data compressing method and the identification number corresponding to each of the plurality of data receiving/transmitting apparatus (Figure 7; Column 57 – 62); and where the control module determines compressing policy according to the record of the second data receiving/transmitting apparatus in the look up table (Column 8, line 67 – Column 9, line 6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Chou's teaching of a destination table including compression capabilities in Engwer's WLAN in order to allow the transmission control module to improve the performance by having the information on whether compression is possible more readily available.

Regarding claims 9 and 21, Engwer teaches the data processing system of claims 5 and 17, wherein, if not receiving the responding data in the predetermined waiting period (Column 7, lines 12 – 15, where the AP sends a test packet to inform the MU that it can handle compressed packets, after that the AP assumes the MU cannot handle compressed packets until a response in a compressed format is received from the MU), the apparatus creates a data record to record the device identification number of the second data receiving/transmitting apparatus, the information of unnecessarily proceeding data compression (Column 12, lines 9 – 17, where the AP keeps track of each MU and whether they have shown no compression abilities).

Engwer does not explicitly indicate the look up table creates a data record to record the device identification number of the second data receiving/transmitting apparatus, the information of data compression, and the information of the corresponding data compressing method into the look up table.

Chou teaches a LAN system with compression capabilities (Column 4, lines 26 – 31). Chou's teaching includes a look up table, for recording the data compressing method and the identification number corresponding to each of the plurality of data receiving/transmitting apparatus (Figure 7; Column 57 – 62); and where the control module determines compressing policy according to the record of the second data receiving/transmitting apparatus in the look up table (Column 8, line 67 – Column 9, line 6).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Chou's teaching of a destination table including compression capabilities in Engwer's WLAN in order to allow the transmission control module to improve the performance by having the information on whether compression is possible more readily available.

Regarding claims 10 and 22, Engwer teaches the data processing system of claims 1 and 12, the data compressing method is to compress the transmitting data during performing the data packet packaging procedure (Column 7, lines 7 - 12).

Regarding claims 11 and 23, Engwer teaches the data processing system of claims 10 and 12.

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Engwer does not explicitly indicate wherein the data compressing method is to proceed the loss-less compression with the transmitting data by the data compressing method of ZIP or LZH.

Chou teaches that the LAN compression method can be ZIP (Column 2, line 24) or LZH (Column 2, line 52).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Chou's of two lossless compression methods in Engwer's teaching in order to use well known in the art compression methods that LAN devices and WLAN devices are likely to support.

Regarding claim 13, Engwer teaches the data processing method of claim 12, wherein the transmitting data comprises a header and a main data (Column 7, lines 7 – 10).

Response to Arguments

Applicant's arguments filed March 8, 2007 have been fully considered but they are not persuasive.

Regarding claim 1, the applicant argues that the references, Chou and Engwer, do not explicitly indicate using a look up table that records data compressing methods relative to how data should be compressed. The examiner disagrees, the claimed invention only teaches the limitation of a data compressing method and determining a corresponding data compressing policy. This limitation is met by the idea of determining whether the destination has a compression policy or not. Nothing in the

claimed limitation includes determining specific policies of compression among other compression policies and any argument towards that would be reading the specification into the claims.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Bates whose telephone number is (571) 272-3980. The examiner can normally be reached on 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on (571) 272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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